



CHG/M  
5/1/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Mitsuaki OSHIMA et al.

Serial No. 09/680,177

Filed October 5, 2000

COMMUNICATION SYSTEM

RECEIVED

APR 28 2003

Technology Center 2600

Confirmation No. 6208

Docket No. 2000\_1391

Group Art Unit 2634

Examiner A. Le

RECOGNIZED COMMISSIONER IS AUTHORIZED  
TO SIGN ANY DEFICIENCY IN THE  
PAPER FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

**LETTER RE PROPOSED DRAWING AMENDMENTS**

Assistant Commissioner for Patents,  
Washington, D.C.

Sir:

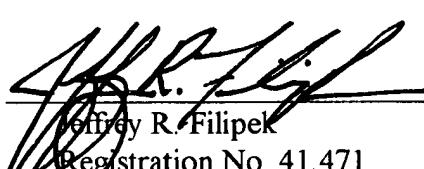
Enclosed herewith is a photocopy of Figs. 2, 10, 17, 29, 48, 65, 67, 93, 112, 131, 138, 144, and 169 highlighted to indicate proposed drawing amendments thereto.

The Examiner is requested to approve such proposed drawing amendments. Formal drawings incorporating such amendments are filed herewith.

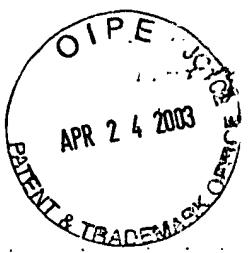
Respectfully submitted,

Mitsuaki OSHIMA et al.

By

  
Jeffrey R. Filipek  
Registration No. 41,471  
Attorney for Patentees

JRF/fs  
Washington, D.C. 20006-1021  
Telephone (202) 721-8200  
Facsimile (202) 721-8250  
April 24, 2003

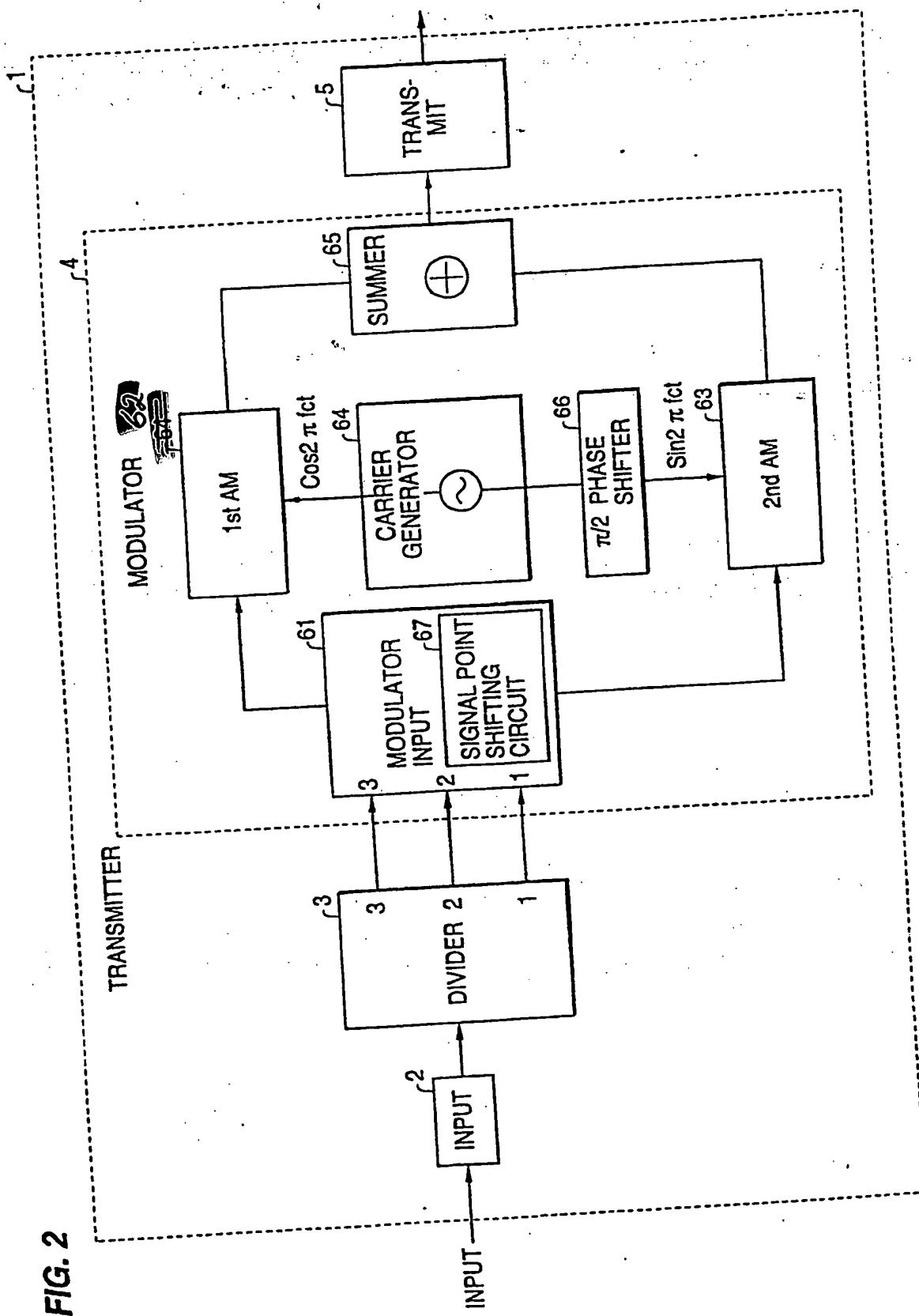


## U.S. Patent

Feb. 4, 1997

Sheet 2 of 178

5,600,672





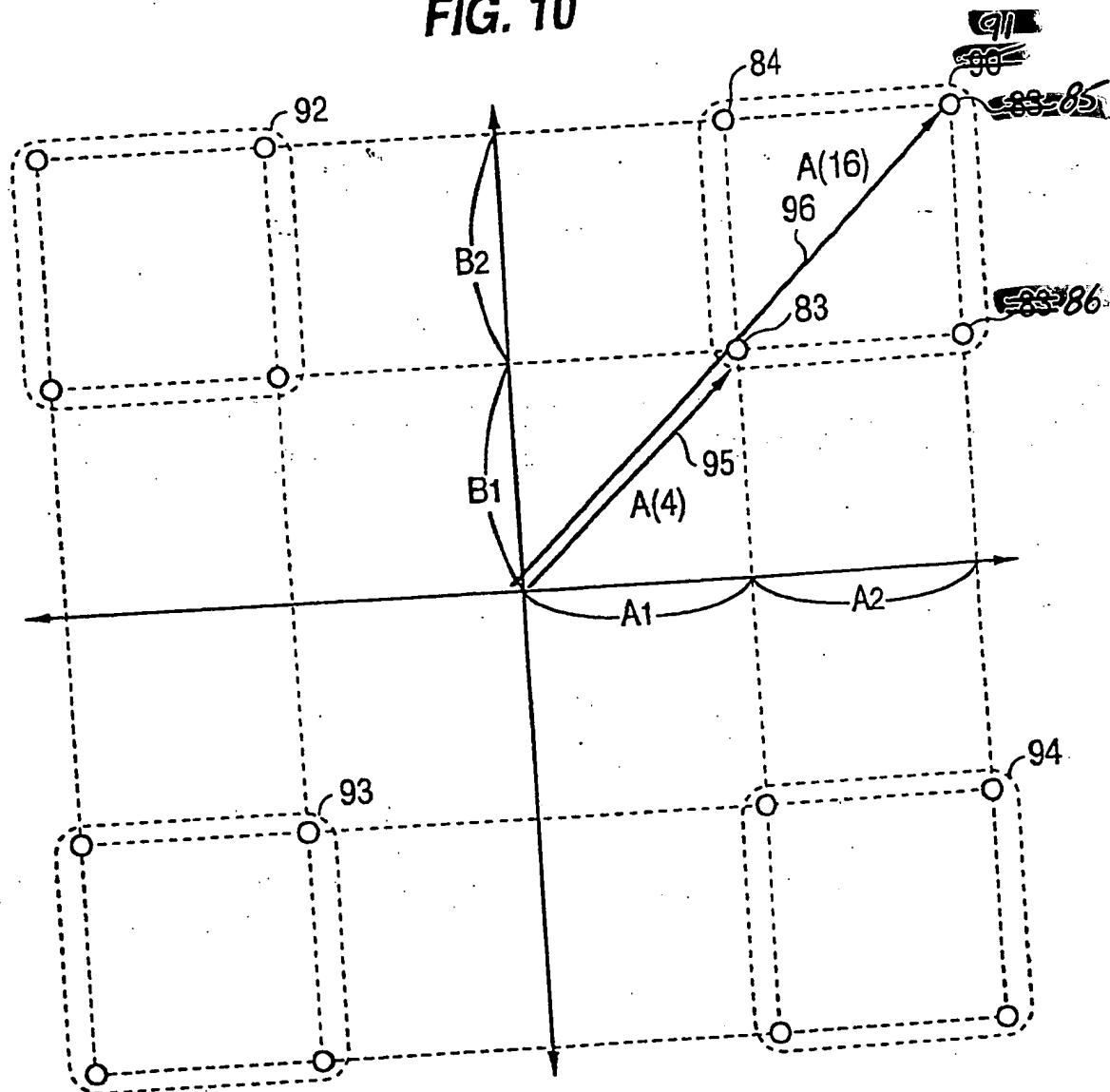
U.S. Patent

Feb. 4, 1997

Sheet 10 of 178

5,600,672

FIG. 10



O I P E  
APR 24 2003  
PATENT & TRADEMARK OFFICE  
UNITED STATES GOVERNMENT

U.S. Patent

Feb. 4, 1997

Sheet 17 of 178

5,600,672

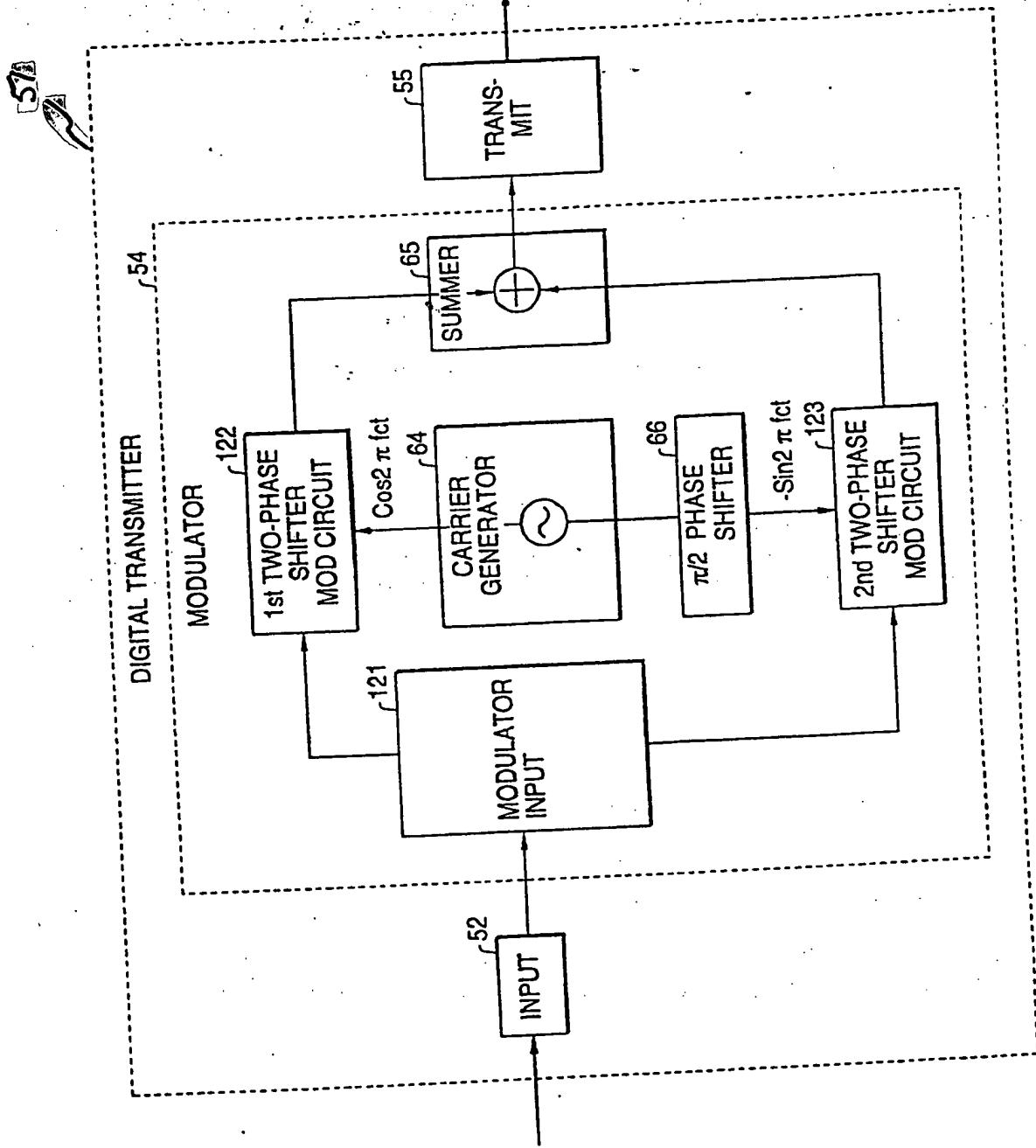


FIG. 17



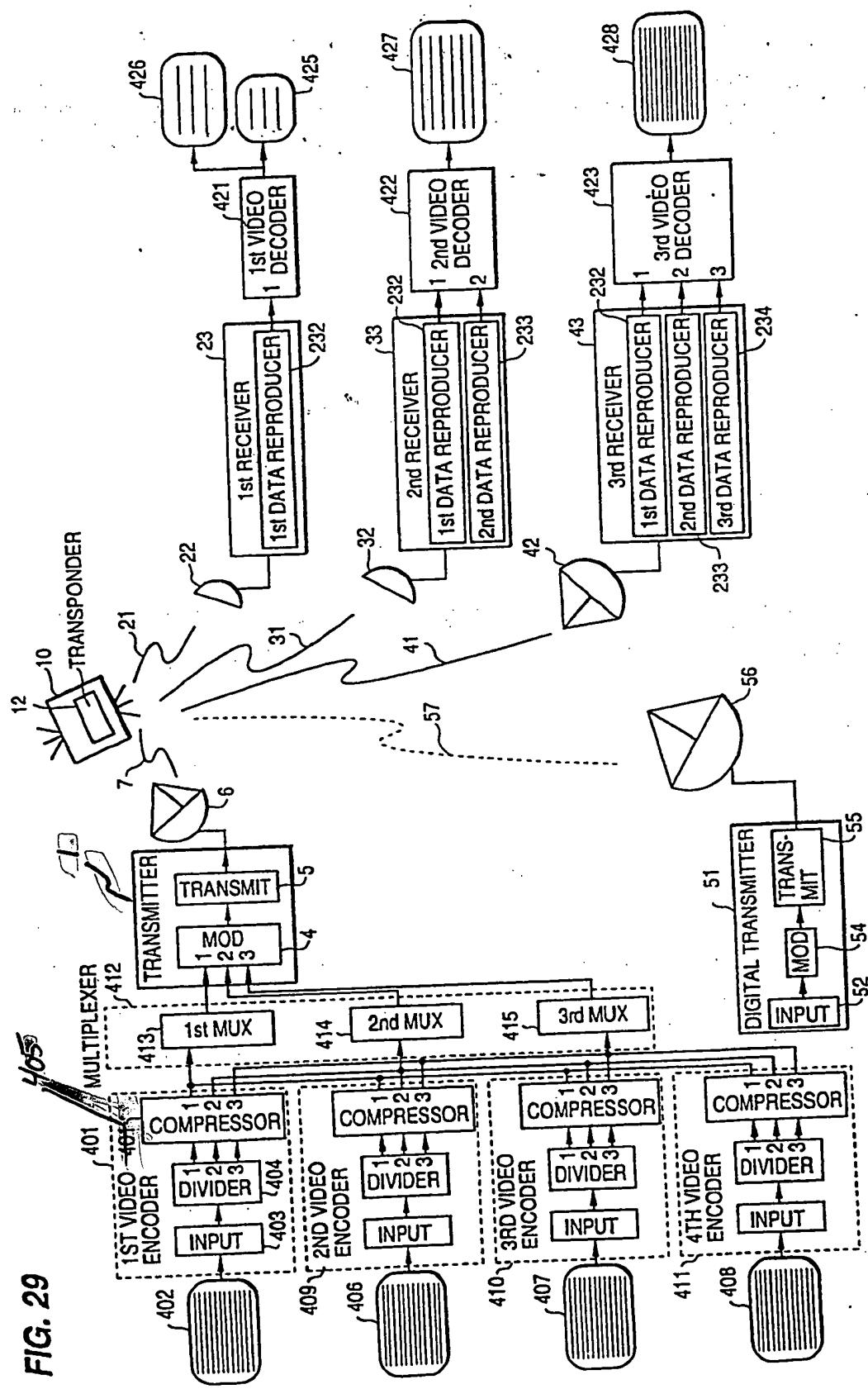
## U.S. Patent

APR 24 2003

Feb. 4, 1997

Sheet 29 of 178

5,600,672



APR 24 2003  
U.S. Patent & TRADEMARK OFFICE

U.S. Patent

Feb. 4, 1997

Sheet 48 of 178

5,600,672

FIG. 48

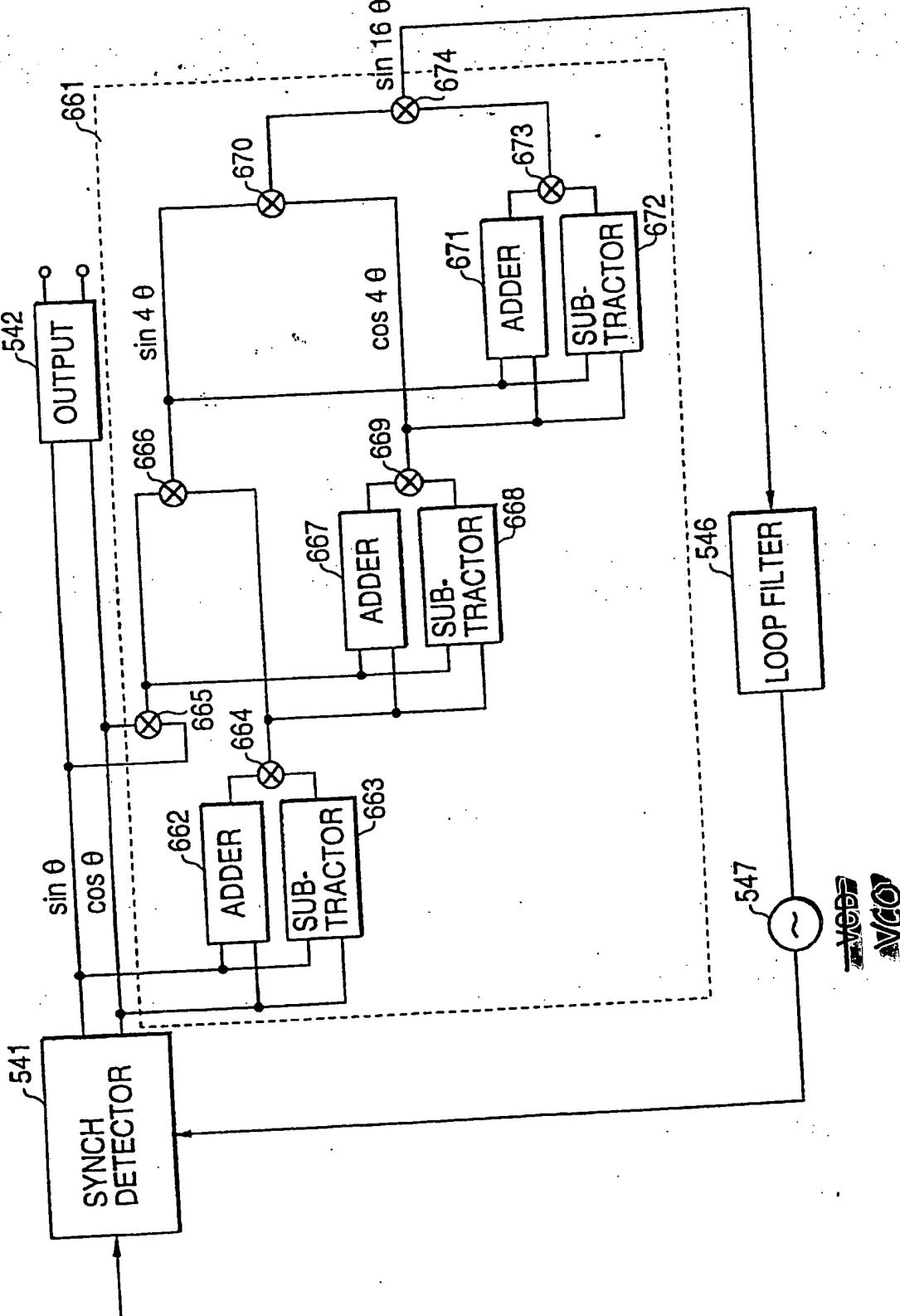
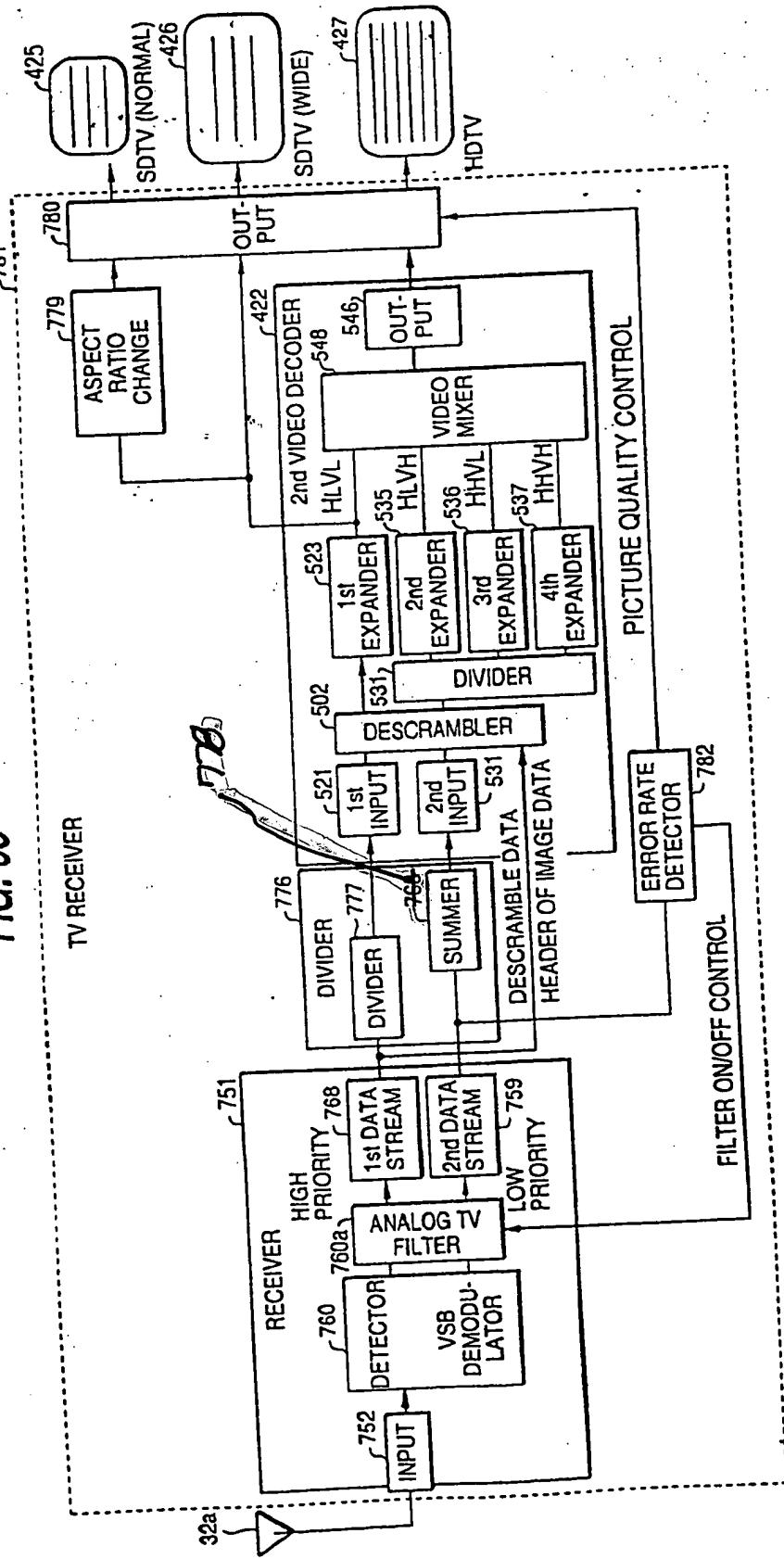




FIG. 65





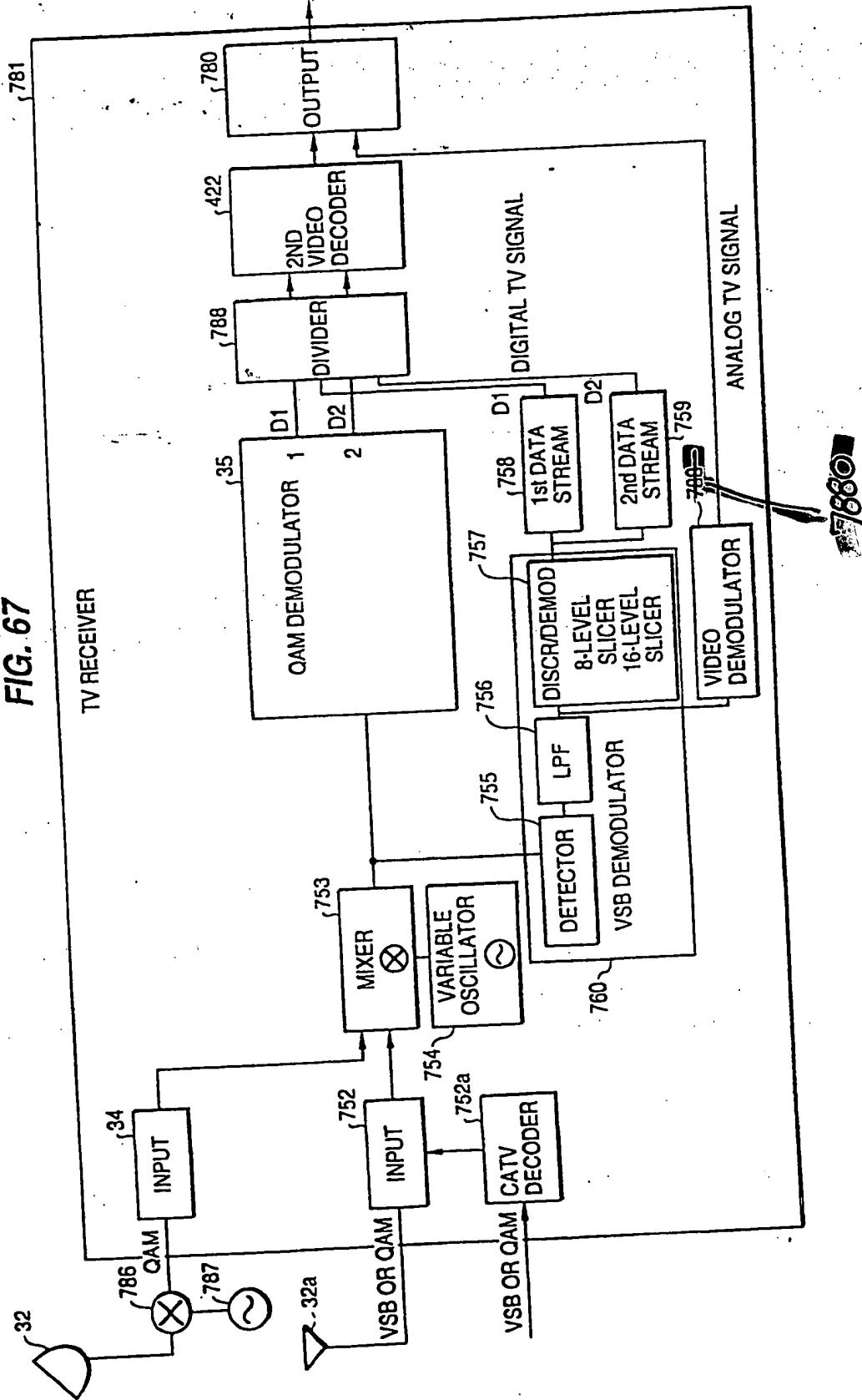
U.S. Patent

Feb. 4, 1997

Sheet 66 of 178

5,600,672

FIG. 67





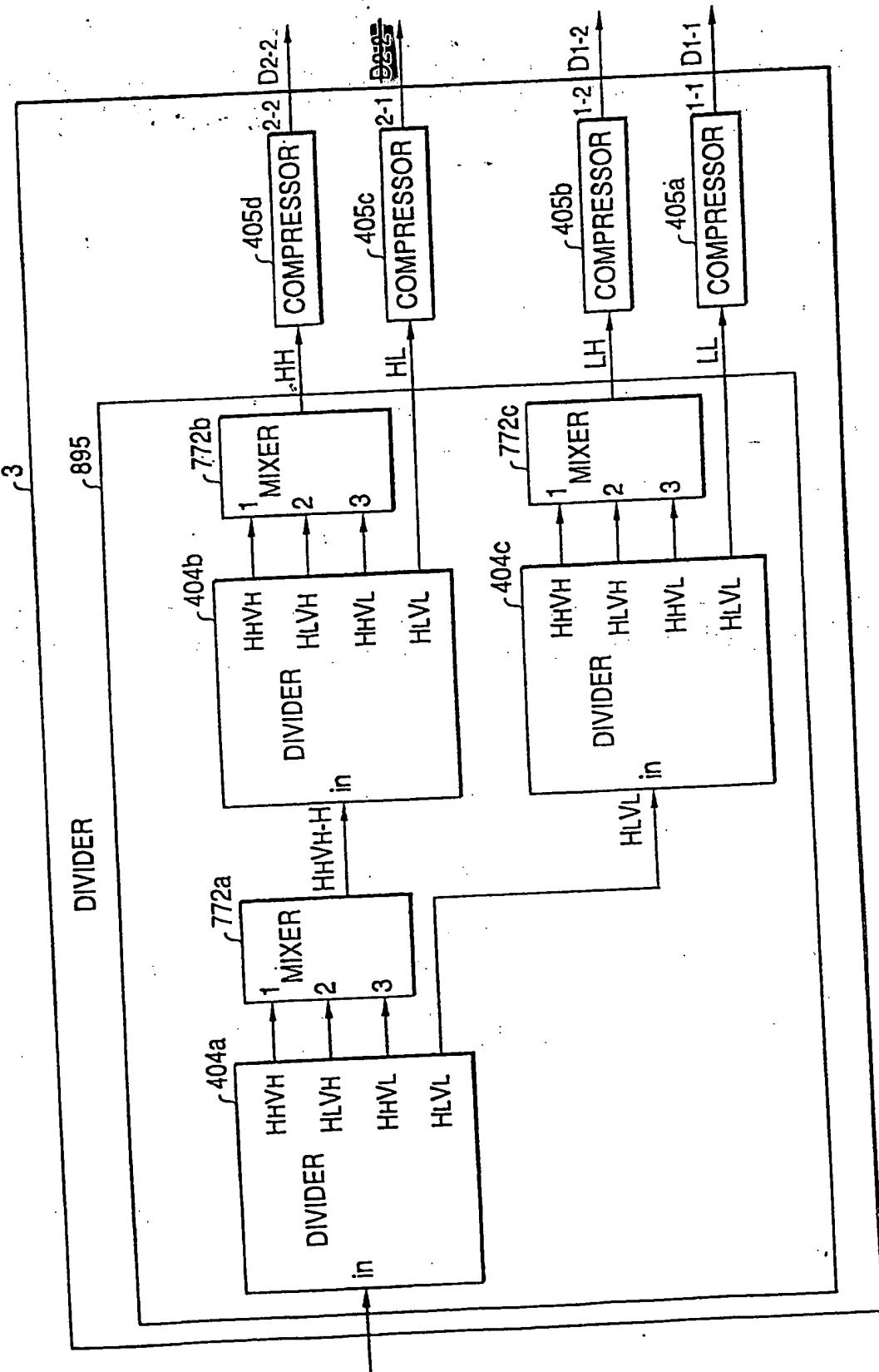
U.S. Patent

Feb. 4, 1997

Sheet 92 of 178

5,600,672

FIG. 93





U.S. Patent

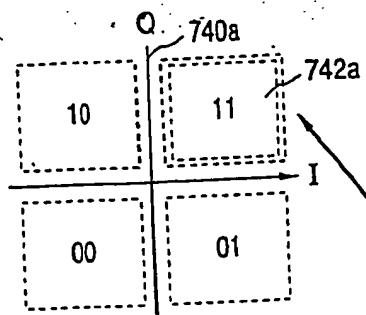
Feb. 4, 1997

Sheet 111 of 178

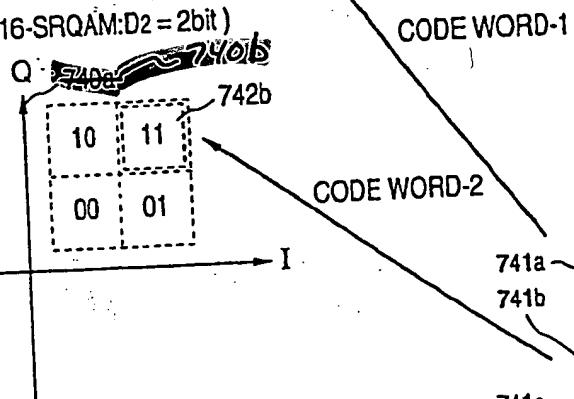
5,600,672

FIG. 112

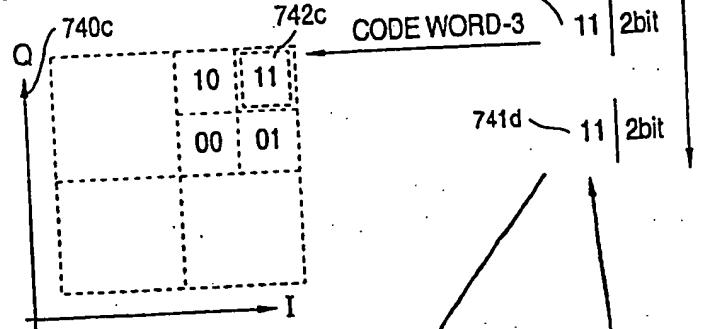
SUBCHANNEL-1 (SRQAM:D1 = 2bit)



SUBCHANNEL-2 (16-SRQAM:D2 = 2bit)



SUBCHANNEL-3 (64-SRQAM:D3 = 2bit)



SUBCHANNEL-4 (256-SRQAM:D4 = 2bit)

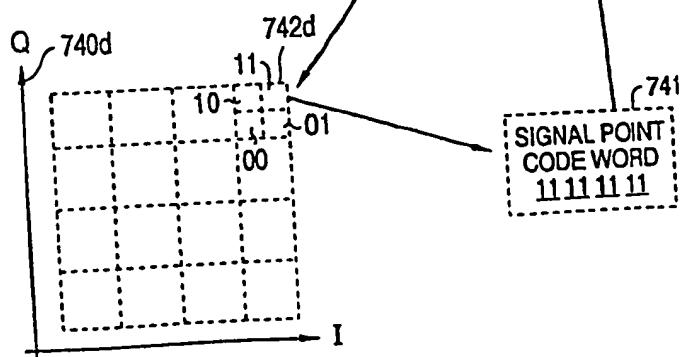
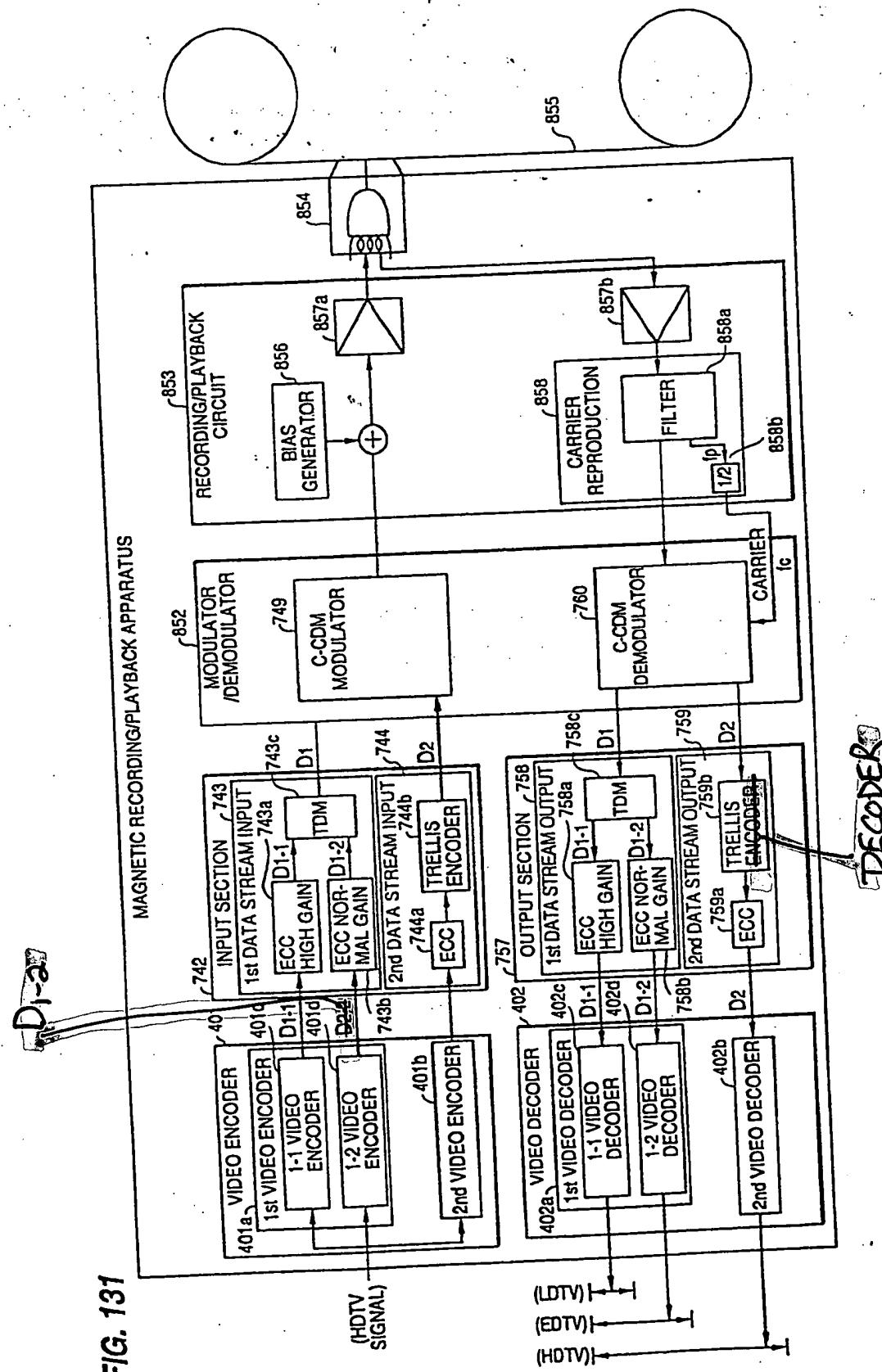


FIG. 131



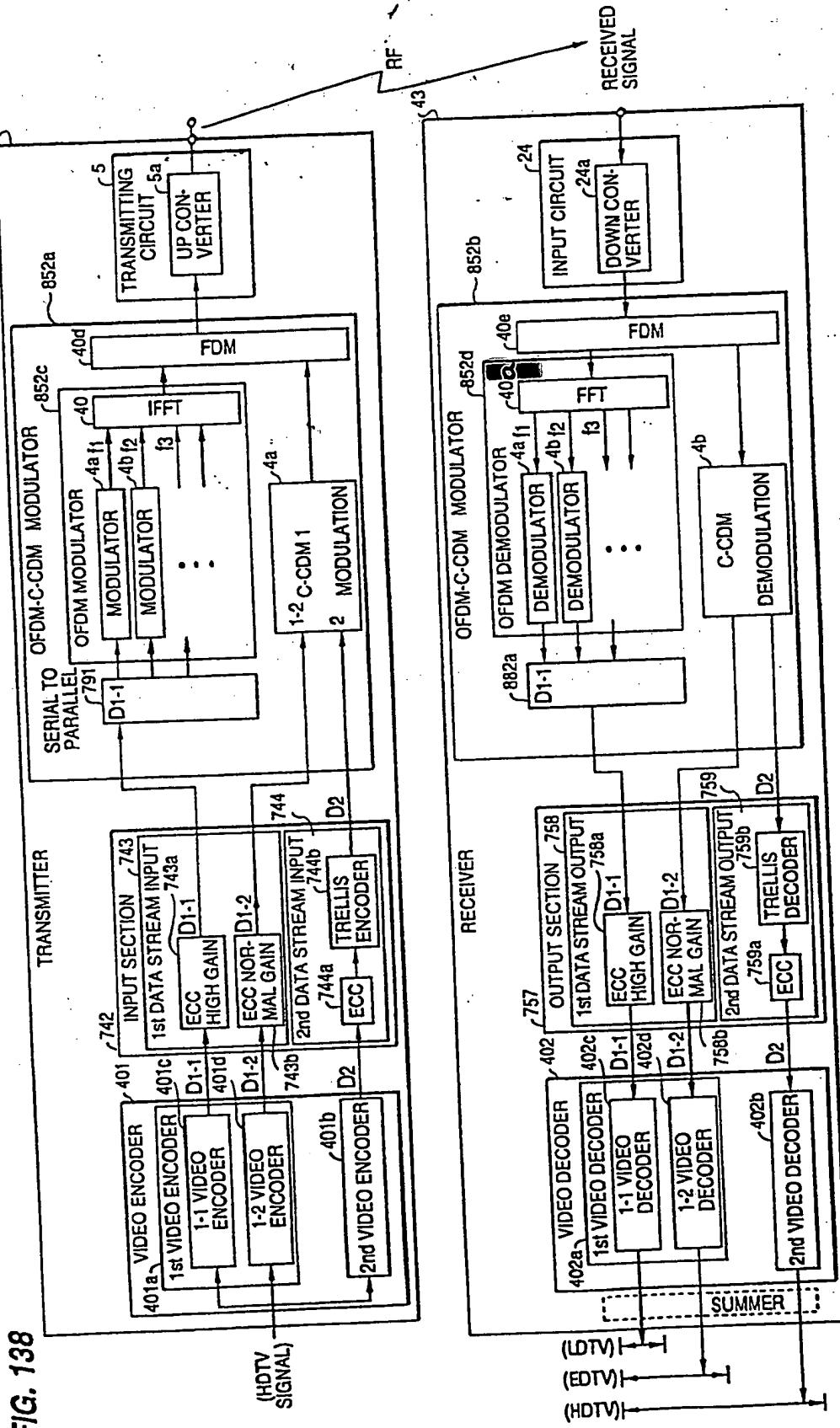


U.S. Patent

Feb. 4, 1997

Sheet 137 of 178

5,600,672



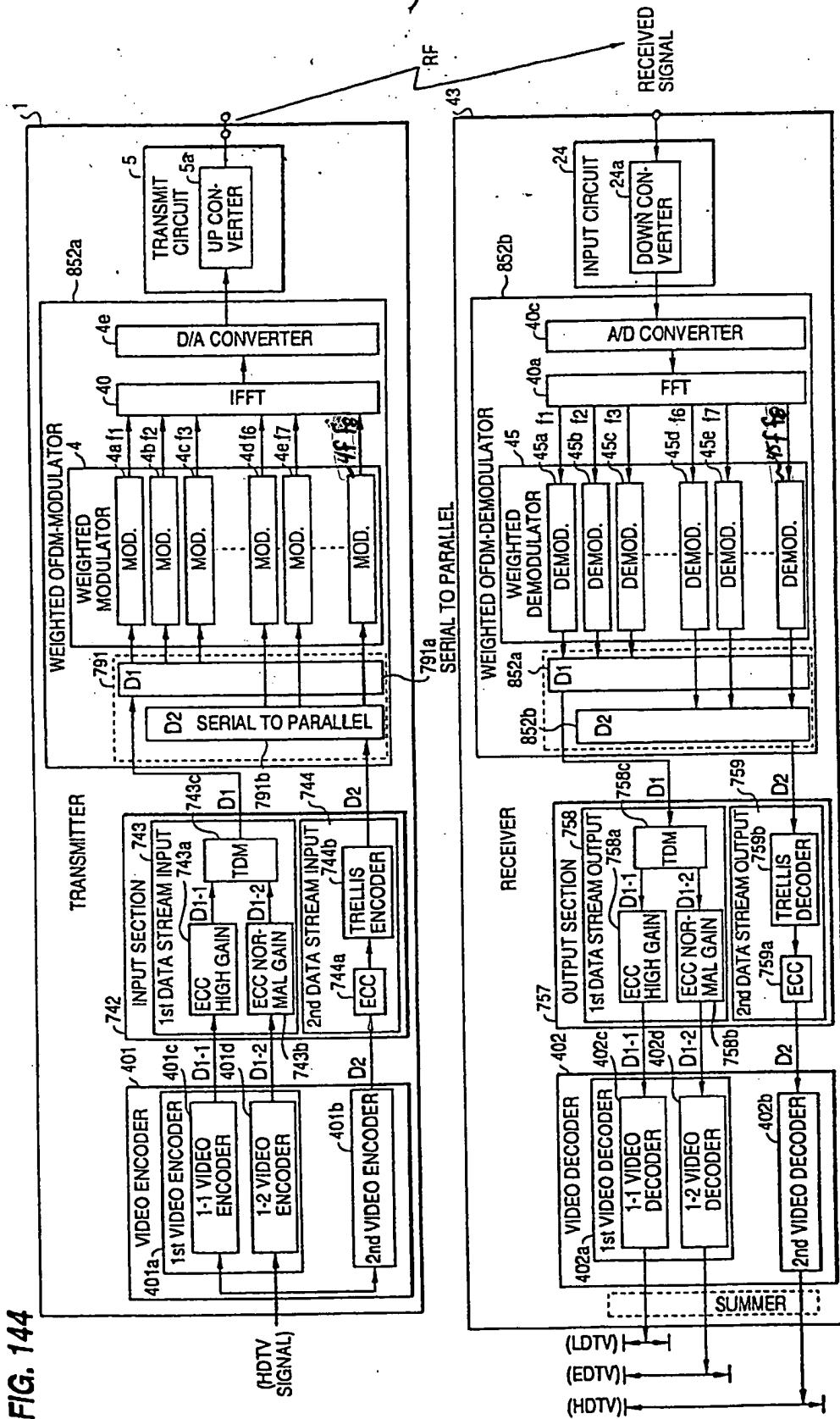


FIG. 169

## COMPARISON OF REDUNDANCY

